Indoor siren
SH401AX

DAITEM

GM Techtronics

INSTALLATION MANUAL

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Recommendations

The user must not attempt to access the siren's internal parts, except areas described in this manual. If the user does access these parts, the product guarantee will be considered null and void and DAITEM shall not be held responsible for any problems. Touching the siren's internal parts and/or electronic components can damage the product. Furthermore, the siren is designed in such a way that these parts and components do not need to be accessed for operation or maintenance purposes.

IMPORTANT: the siren's sound level can cause hearing disorders. Take the necessary precautions before testing the product.

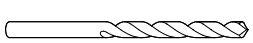
1. Introduction

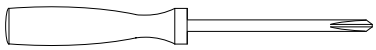
IMPORTANT
- **Some functions are only available with versions 2.0.0 or later (press # 5 0 3 # # on the control panel keypad to check the version).**
- **The operating differences with former ranges are described in the compatibility booklet available in the Daitem installers section at www.daitem.co.uk.**

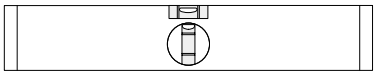
In addition to the protection provided by the control panel with built-in siren and keypad, the indoor siren **deters intruders**.
If a fire is detected, the siren is triggered for 5 minutes in fire sounding mode.
Thanks to its built-in transmitter, the siren informs the control panel when it has a battery problem.
If somebody attempts to pull the siren off the wall, it sounds and then triggers all the alerts and deterrents via the control panel.

2. Preparing the siren

2.1 Tooling required



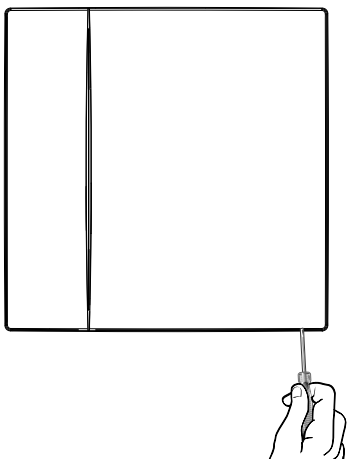




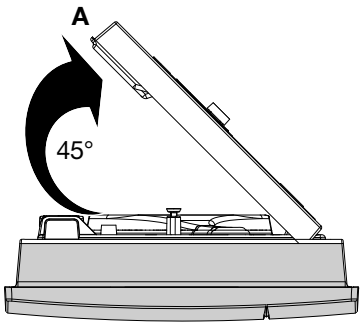
IMPORTANT: the fixing screws and wall plugs are not supplied.

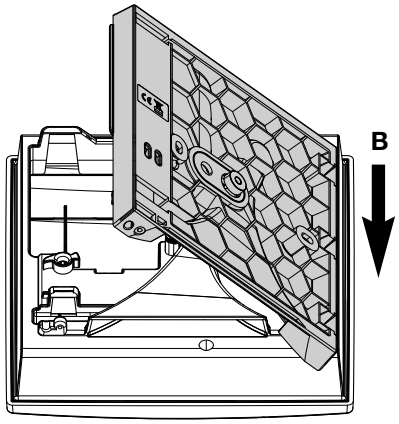
2.2 Opening the siren and connecting the power supply

1. Insert a screwdriver in the bottom-right hand corner between the base and the siren and apply pressure to open the siren.



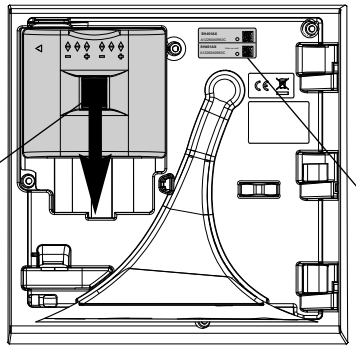
2. Place the siren on a flat surface, remove the base by inclining it at a 45° angle (**A**) and pull it downwards (**B**).





3. Position the power pack on the guide rails.

4. Slide the power pack downwards until it is locked into place.



5. Guarantee sticker
Remove the pre-cut part of the sticker and stick it to the guarantee certificate in the user manual supplied with the control panel. If you are adding the siren to an existing system, use the guarantee sticker provided with this product.

To remove the lithium power pack, press on the unlocking key and slide the pack upwards.

IMPORTANT
- **When the siren is powered, it will issue a long beep and automatically switch to installation mode (tamper mechanism disabled).**
- **If the siren does not respond as it should: - disconnect the power pack,**
  - wait for 2 minutes,
  - reconnect the lithium power pack,
  - check the siren issues a long beep as it should.

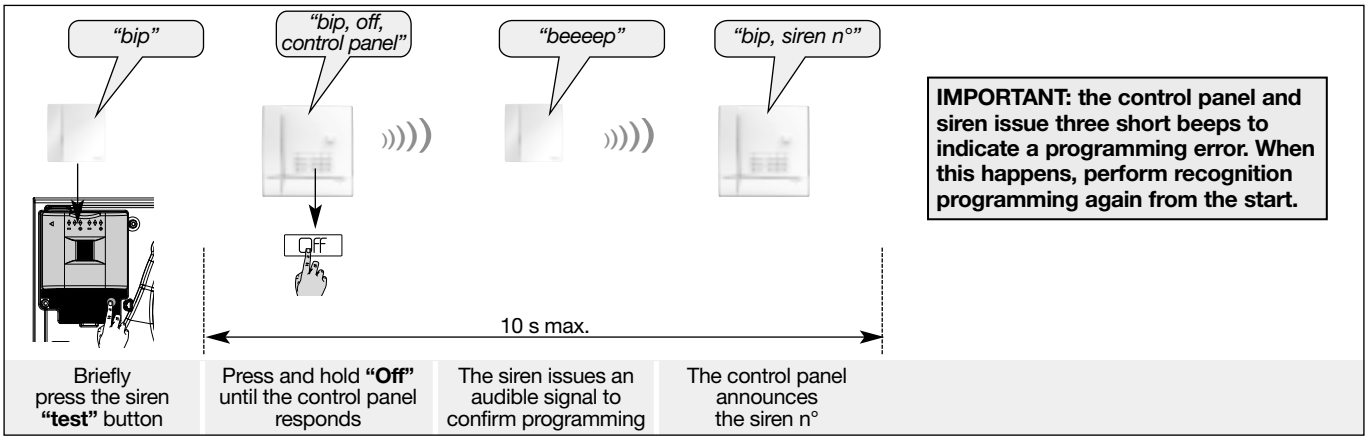
3. Recognition programming

Recognition programming allows the siren to be recognised by the control panel.
It must be done with the control panel and siren in installation mode. If they are not in installation mode, enter:

[ ][ ][ ][ ][#][2][#][#] then [ ][ ][ ][ ][#][3][#][#]
master code — installer code

IMPORTANT
- **The siren does not need to be placed close to the control panel for recognition programming. In fact, it is advisable to move it away from the panel (to a distance of at least 2 m).**
- **The control panel gives the siren a n° during recognition programming.**

Siren recognition programming sequence


"bip"
"bip, off, control panel"
"beeeep"
"bip, siren n°"
Off
10 s max.
Briefly press the siren **"test"** button
Press and hold **"Off"** until the control panel responds
The siren issues an audible signal to confirm programming
The control panel announces the siren n°

IMPORTANT: the control panel and siren issue three short beeps to indicate a programming error. When this happens, perform recognition programming again from the start.

4. Setting the parameters

IMPORTANT: all parameter-setting must be done using TwinLoad® software available in the Daitem installers section at www.daitem.co.uk.

The control panel and siren must be in installation mode to set the siren's parameters. If they are not, enter:

[ ][ ][ ][ ][#][2][#][#] then [ ][ ][ ][ ][#][3][#][#]
master code — installer code

The siren's parameters are factory-programmed.
Each parameter can nevertheless be modified using the control panel keypad.

To set the siren's parameters, first choose the parameters to be modified and then enter:

[*][*][4][*][ ][*][ ][ ][*][ ][ ][ ][*][*]
siren n° — parameter n° — parameter value

4.1 Delayed alarm sounding upon intrusion

Siren alarm sounding can be delayed by 60 seconds maximum. This gives users enough time to disarm the system before the alarm siren sounds if, for instance, they have pressed the wrong button. To delay sounding, enter:

[*][*][4][*][ ][*][3][*][ ][ ][*][*]
siren n° — from 0 to 60 s

Factory setting: 0 s

4.2 Duration of alarm sounding

To modify the duration of sounding, enter:

[*][*][4][*][ ][*][4][*][ ][ ][ ][*][*]
siren n° — from 20 to 180 s

Factory setting: 90 s

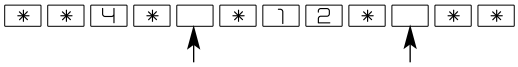
4.3 Sound level of arm and disarm command indications

For greater user-friendliness, the sound level can be increased or decreased. To do this, enter:

Factory setting: 4 = average

4.4 Transfer of arm and disarm commands

To change the transfer of indications, enter:



Factory setting: 1

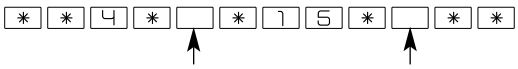
4.5 Indication of audible signals and door bell

This function is factory-set to be enabled. It can be deactivated if required. To do this, enter:

Factory setting: 1

4.6 Validation of radio link in installation mode

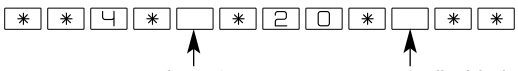
This function is used to validate the radio link test in installation mode on 1 or 2 radio bands.To switch to 2 bands, enter:



Factory setting: 0

4.7 Triggering upon intrusion

The alarm is factory-set to be triggered as soon as an intrusion is detected. This function can be deactivated or activated for intrusion confirmed indications only. To do this, enter:



Factory setting: 1

4.8 Protection system armed indication

When this function is enabled, the siren issues a series of 4 beeps to indicate that the system is armed. The function can be deactivated.

Factory setting: 1

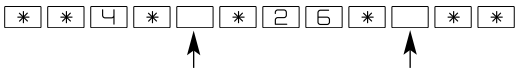
4.9 Alarm indication in armed presence mode

The siren is factory-set to sound loudly for 15 s in case of intrusion. It can be deactivated or changed to quiet sounding. To do this, enter:

Factory setting: 2

4.10 Triggering following a communication network interruption

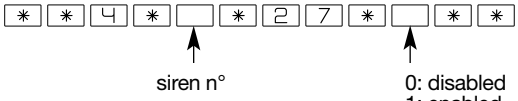
When this function is enabled, loud sounding can be triggered (except when parameter 26 is set at 0).



Factory setting: 0

4.10 Radio tamper

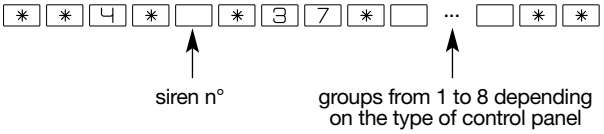
If the radio links are deliberately tampered with, the siren is triggered.
To activate or deactivate the radio tamper system, enter:



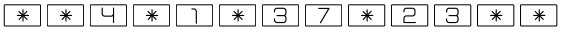
Factory setting: 1

4.11 Allocation of siren to alarm group

To allocate the siren to one or several alarm system groups, enter:



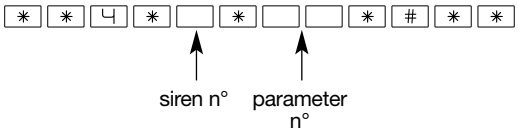
Example: to allocate siren n° 1 to Group 2 and Group 3, enter:



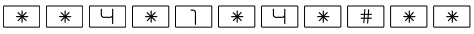
Factory setting: all groups

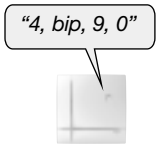
4.12 Checking

To check parameter-setting, enter:



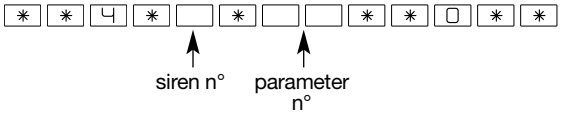
Example: to check on **siren n° 1**, lparameter **4: duration of sounding**, enter:



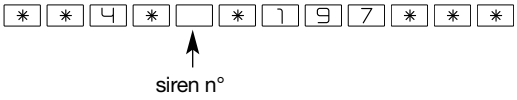


4.13 Deletion of parameters

• To delete a parameter, enter



• To delete all parameters, enter:



5. Installing the siren

5.1 Choosing the best place to install the siren

IMPORTANT: make sure there is a distance of at least 2 metres between each product, except between two detectors.

The siren should preferably be placed:
- at a height,
- far away from possible sources of electrical interference (electricity meter, telephone box, etc.).

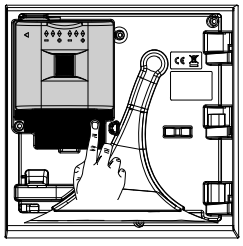
Never fix the siren to a metal wall.

5.2 Testing the radio range

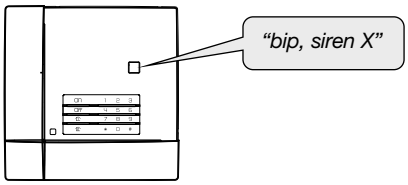
Before fixing the siren in place, test its radio range in the chosen location by putting it there.

If the test is satisfactory, fix the siren in place. Otherwise, move it to a different location.

1. Press the test button.

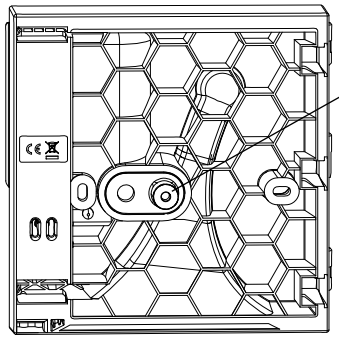


2. The control panel issues the message:



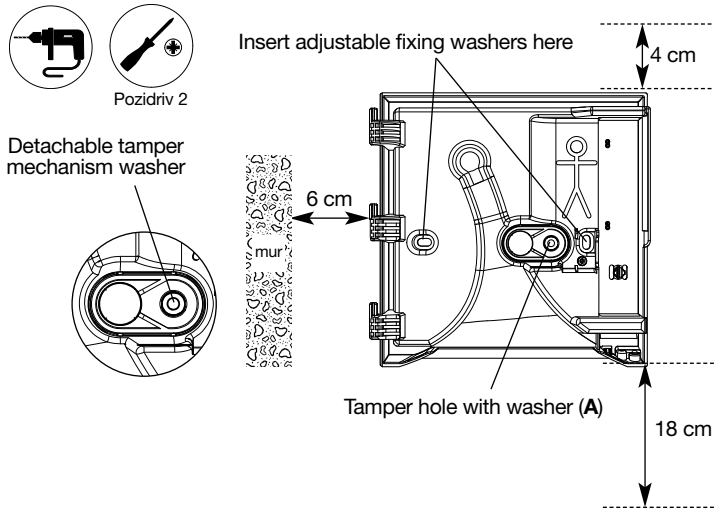
5.3 Fixing the siren in place

1. Remove the tamper mechanism washer located on the back of the siren.

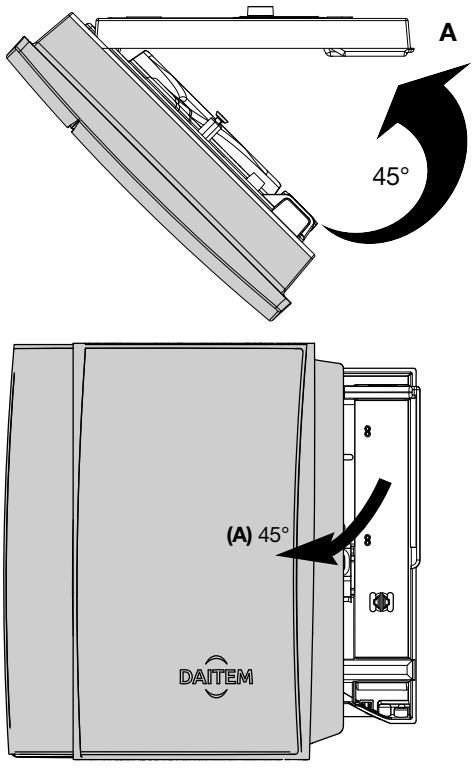


2. • For the siren to be installed there must be a space of 6 cm to the left of the base, 4 cm above and 18 cm below. This clearance allows for the siren to be easily opened or locked.

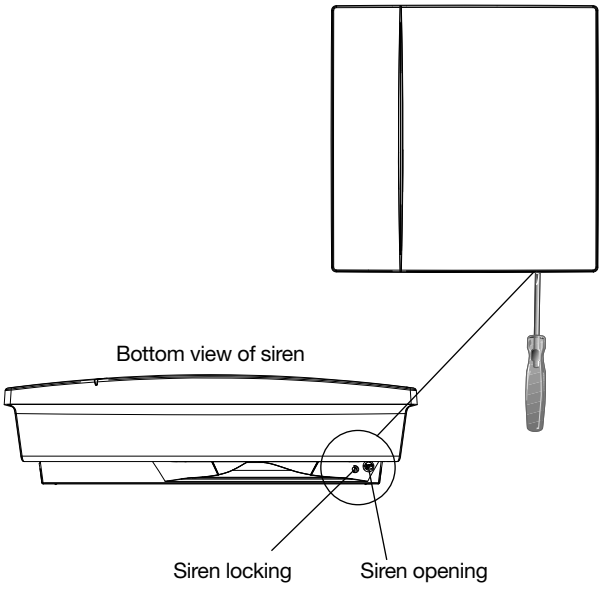
2. • Fix the siren at 3 points.



3. Open the siren at an angle of 45° (**A**) in relation to the base and insert the pivots on the base into the hinges.



4. Close the siren and lock it using the screw located inside the product.



6. Performing a real test

Testing triggering when there is an attempt to remove the siren

IMPORTANT: the sounding level of the siren can cause hearing disorders. The necessary precautions must therefore be taken before testing siren triggering.

1. Loosen the siren locking screw.

2. Open the siren.

3. Check triggering:
- of the siren,
- of the control panel,
- of the telephone dialler.

4. Issue an Off order.

7. Maintenance

7.1 Fault indications

The control panel supervises and identifies the siren.
It monitors the state of the:

- **power supply,**
- **radio link,**
- **tamper contact.**

If a fault is memorised the control panel issues a voice message to indicate the fault following a system command (see § Fault indications in the control panel installation manual).

7.2 Changing the battery

- **The lithium battery pack must be replaced by the same type of pack with the same technical characteristics, i.e. 2 x (3.6 V – 13 Ah).**
- **We advise you to use the DAITEM BatLi22 pack available in the catalogue in order to guarantee individual safety and equipment reliability.**
- **Dispose of the waste lithium power pack in an appropriate recycling bin.**

To change the battery:

1. send a disarm command,

2. switch the control panel to installation mode:

□ □ □ □ # 2 # # master code then □ □ □ □ # 3 # # installer code

3. remove the siren from the wall,

4. remove the faulty lithium power pack,

5. wait for 2 minutes before connecting the new lithium pack,

6. close the siren and put it back on its base,

7. switch the control panel to user mode:

□ □ □ □ # 1 # # installer code

8. test triggering.

8. Summary of parameters

Parameter description	Parameter-setting sequence	Factory parameter	Possible values	Page
Delayed sounding upon intrusion	*** 4 * siren n° * 3 * ?? **	0: immediate	from 0 to 60 s 0: immediate	3
Sounding duration	*** 4 * siren n° * 4 * ??? **	90 s	from 20 s to 180 s	3
Sound level of disarm/arm indications	*** 4 * siren n° * 11 * ? **	4: average	from 1 to 8	4
Transfer of disarm/arm indications	*** 4 * siren n° * 12 * ? **	1: sound	0: disabled 1: sounding	4
Indication of audible signals and door bell	*** 4 * siren n° * 13 * ? **	1: enabled	0: disabled 1: enabled	4
Validation of radio link in installation mode	*** 4 * siren n° * 15 * ? **	0: on one of 2 bands	0: validation on 1 of 2 bands 1: validation on 2 bands	4
Triggering upon intrusion	*** 4 * siren n° * 20 * ? **	1: single or confirmed intrusion	0: disabled 1: single or confirmed intrusion 2: confirmed intrusion only	4
Protection system armed indication	*** 4 * siren n° * 21 * ? **	1: audible	0: disabled 1: sounding	4
Alarm indication in armed presence mode	*** 4 * siren n° * 22 * ? **	2: loud sounding (15 s)	0: disabled 1: quiet sounding (4 beeps) 2: loud sounding (15 s)	4
Triggering upon communication network interruption	*** 4 * siren n° * 26 * ? **	0: disabled	0: disabled 1: loud sounding triggered if the system is totally armed 2: loud sounding triggered 24/24	4
Radio tamper	*** 4 * siren n° * 27 * ? **	1: enabled	0: disabled 1: enabled	5
Allocation of a siren to one or several intrusion groups	*** 4 * siren n° * 37 * ? **	all groups	Selection of group(s): from 1 to 8 depending on type of control panel	5
Deletion of all parameters	*** 4 * siren n° * 197 ***	-	-	5
Deletion of one parameter	*** 4 * siren n° * parameter n° ** 0 **	-	-	5

9. Technical data

Technical specifications	SH401AX siren
Acoustic level	93 dB at 1 m
Sounding duration	20 s to 180 s
Internal sounding	3600 Hz to 4200 Hz with 6 Hz modulation
Fire sounding	700/900 Hz, sounding duration: 5 min.
Transfer of Arm/Disarm indications	audible
Environment	indoor
Power supply	TwinPower® via lithium power pack (2 x 3.6 V)
Battery life	5 years in normal conditions of use
Average current consumed	222 µA
Average humidity rate	5% to 75% without condensation at 25°C
Radio links	TwinBand® 400/800 MHz
Supervision	radio, lithium pack, tamper
Operating temperature	-10°C to + 50°C
Tamper protection against	• opening • removal
Degrees of mechanical protection	IP 31/IK 04
W x H x D	192 x 192 x 59.5 mm
Weight	900 g (with battery)
Security grade	grade 2 according to standard EN 50131-4
Environmental class	class II according to standard EN 50130-5

CE

DECLARATION OF CONFORMITY

GB
12

Manufacturer: **Hager Security SAS**
Address: **F-38926 Crolles Cedex - France**

Product type: **Siren**
Trade mark: **Daitem**
We declare under our sole responsibility that the product to which this declaration relates is compliant with the essential requirements of the following directives:
- **R&TTE directive: 99/5/EEC**
- **Low voltage directive: 2006/95/EC**
- **ROHS directive: 2002/95/EC**

in compliance with the following harmonised European standards:

Product references	SH401AX
EN 300 220-2 V3.2.1	X
EN 50130-4 (95) + A1 (98) + A2 (2002)	X
EN 55022 & 55024 (2002)	X
EN 60950 (2006)	X
EN 301 489-1 V1.8.1	X

This product can be used in all EU, EEA Countries and Switzerland.

Crolles, 31.08.2012

Signature:
Patrick Bernard
Research & Development Manager

Non-binding document, subject to modification without notice.

To obtain advice when installing your system or before returning equipment, please contact the Daitem technical support team (see telephone number at the back of the alarm system installation manual) or check the web site at:

www.daitem.co.uk

A team of qualified technicians will advise you what to do.

805146/A - 12.2012

DAITEM